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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/607,950	06/27/2003	Wenpeng Hsueh	RAE004US	3044
27906 7	7590 09/20/2004		EXAM	INER
PATENT LAW OFFICES OF DAVID MILLERS 6560 ASHFIELD COURT			NATALINI, JEFF WILLIAM	
SAN JOSE, C			ART UNIT	PAPER NUMBER
			2858	
			DATE MAILED: 09/20/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

			1			
	Application No.	Applicant(s)				
	10/607,950	HSUEH ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jeff Natalini	2858				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with	the correspondence addre	ess			
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, and If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some Any reply received by the Office later than three months after the nearned patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may a rep b. a reply within the statutory minimum of thirty (striod will apply and will expire SIX (6) MONTH tatute, cause the application to become ABAI	ly be timely filed (30) days will be considered timely. 1S from the mailing date of this comm NDONED (35 U.S.C. § 133).	nunication.			
Status						
1) Responsive to communication(s) filed on _						
	 This action is non-final.		•			
· <u>-</u>		's, prosecution as to the m	erits is			
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-36</u> is/are pending in the applica	tion					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) <u>1-36</u> are subject to restriction and	or election requirement.					
Application Papers						
	ninor					
· · · · · · · · · · · · · · · · · · ·	The specification is objected to by the Examiner. The drawing(s) filed on <u>27 June 2004</u> is/are: a)⊠ accepted or b) objected to by the Examiner.					
	• •	<u>•</u>				
Applicant may not request that any objection to	= ' '	• •	4.4047.15			
Replacement drawing sheet(s) including the co						
Priority under 35 U.S.C. § 119						
<u>-</u>	oian naisaitu undar 25 U.C.C. C.4	140(a) (d) an (f)				
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:	•	19(a)-(d) or (f).				
1. Certified copies of the priority docum		1 A.				
2. Certified copies of the priority docum		· · · · · · · · · · · · · · · · · · ·				
3. Copies of the certified copies of the		eceived in this National Sta	age .			
application from the International Bu	. , ,					
* See the attached detailed Office action for a	list of the certified copies not re	ceived.				
Attachment/e)						
Attachment(s)	∧ □~					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	4) ∐ Interview Sur Paper No(s)/l	nmary (PTO-413) Mail Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date		ormal Patent Application (PTO-15	52)			

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-12, drawn to a calibration process for a detector, classified in class 324, subclass 601.
- II. Claim 13-27, drawn to process for operating a detector with mapping, classified in class 324, subclass 464.
- III. Claim 28-32, drawn to a process for operating a detector based on threshold, classified in class 324, subclass 464.
- IV. Claims 33-36, drawn to process for operating a photo-ionization detector, classified in class 324, subclass 409.

Inventions II and I are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the combination does not require a change from a first signal level to a second level when a measurement is above the threshold, and then back to the first signal level when the gas falls below a threshold. The subcombination has separate utility such as calibrating a lamp when it is determined the gas concentration level is above a threshold.

Inventions II and III are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the combination is not required to test if the gas is above a threshold level. The subcombination has separate utility such as applying a second drive signal if the gas level is above a dangerous (threshold) level in a lamp.

Inventions II and IV are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the combination is not required to sense if the lamp is operating properly. The subcombination has separate utility such as making a determination of a faulty lamp.

A telephone call was made to Mr. David Millers on September 10, 2004 to request an oral election to the above restriction requirement, but did not result in an election being made.

Application/Control Number: 10/607,950

Art Unit: 2858

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Conclusion

Page 4

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeff Natalini whose telephone number is 571-272-2266. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, N. Le can be reached on 571-272-2233. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jeff Natalini

ANJAN DEB PRIMARY EXAMINER

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